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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/022,801	12/20/2001	Masaaki Maekawa	1417-377	3879
75	90 07/03/2003			
NIXON & VANDERHYE P.C.			EXAMINER	
8th Floor 1100 North Glebe Road		,	LE, HOA T	
Arlington, VA	22201		ART UNIT	PAPER NUMBER
			1773	l
			DATE MAILED: 07/03/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

r			mi.			
		Application No.	Applicant(s)			
		10/022,801	MAEKAWA ET AL.			
	Office Action Summary	Examin r	Art Unit			
		H. T. Le	1773			
P riod fo	The MAILING DATE of this commun or Reply	ication appears on the cover shee	t with the correspondence address			
THE I - Exter after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply specified above is less than thirty (3 period for reply is specified above, the maximum stree to reply within the set or extended period for reply reply received by the Office later than three months a department See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, manufication. 0) days, a reply within the statutory minimum o atutory period will apply and will expire SIX (6) will, by statute, cause the application to become	ay a reply be timely filed  f thirty (30) days will be considered timely.  MONTHS from the mailing date of this communication.  the ABANDONED (35 U.S.C. § 133).			
1)	Responsive to communication(s) fil	ed on				
2a)□	,	2b)⊠ This action is non-final.				
3)	closed in accordance with the pract	n for allowance except for formal cice under <i>Ex parte Quayle</i> , 1935	matters, prosecution as to the merits is C.D. 11, 453 O.G. 213.			
-	on of Claims					
,	Claim(s) 1-13 is/are pending in the					
	4a) Of the above claim(s) is/a	re withdrawn from consideration.				
	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-13</u> is/are rejected.						
7)	Claim(s) is/are objected to.					
	Claim(s) are subject to restriction Papers	tion and/or election requirement.				
9)[	The specification is objected to by the	e Examiner.				
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority ι	ınder 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)	☑ All b) ☐ Some * c) ☐ None of:					
	1.⊠ Certified copies of the priority	documents have been received.				
	2. Certified copies of the priority	documents have been received	in Application No			
* 5		ational Bureau (PCT Rule 17.2(a				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
	)  The translation of the foreign lare  Acknowledgment is made of a claim to	<del>-</del> - ·				
Attachmen		• •				
1) Notice 2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449) P	PTO-948) , 5) 🔲 Notic	riew Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152)			

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## **DETAILED ACTION**

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## Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The instant claims require an "activation volume" of the claimed magnetic alloy particles be of 0.01 to 0.07 E-4 μm³. However, the specification fails to provide an adequate description as to how the claimed value of activation volume is achieved or controlled.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-5 and 7-13 are rejected under 35 U.S.C. 102(b) as being anticipated by '516 Okinaka et al (US 5,989,516).

Claims 1, 2, 9, and 10: '516 Okinaka et al disclose a method of making spindle-shaped magnetic alloy particles: comprising Fe and Co as the main components; having (1) a Co

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content of from 8 to 50 atm% based on the total amount of Fe, in particular 36 atm% (col. 12, lines 24-26); (2) an average major axis diameter of 0.05 to 0.12 µm (col. 12, lines 28-32); (3) a crystallite size (D<sub>110</sub>) of 80 to 150 Ao (see col. 13, lines 38-40); and a coercive force of 1850 to 2500 Oe (col. 21, lines 1-5 and 33-42). Note that the aforementioned spindle-shaped magnetic alloy particles are according to the second embodiment as disclosed in the '516 Okinaka reference. '516 Okinaka does not measure the activation volume of the magnetic alloy particles; however, such value of activation volume as claimed is deemed inherent because activation volume as measured according to the instant disclosure is just a change in magnetization of the particles. In this case, because the magnetic alloy particles taught by '516 Okinaka contain the same main components, same cobalt content, have the same dimensions and possess the same magnetic properties (i.e. coercive force and squareness) as those of the claimed magnetic particles, it is necessarily inherent that the particles taught by '516 Okinaka exhibit the same change in magnetization and thus the same activation volume.

Claim 3: col. 8, lines 47-49.

Claims 4 and 11: Rh value is another magnetic property; therefore, it is deemed met by inherence as the magnetic alloy particles taught by Okinaka contain the same main components, same cobalt content, have the same dimensions and possess the same magnetic properties (i.e. coercive force and squareness) as those of the claimed magnetic particles Claim 5: Table 8 (col. 49, lines 60-66).

Claim 7: col. 24, lines 52-56.

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Claims 8 and 12: Table 10, col. 52, lines 20-25. The orientation degree and oxidation stability are deemed met by inherence because they are derivative properties of the squareness ratio. In this case the magnetic recording medium of the '516 Okinaka reference possess the same squareness ratio as the claimed magnetic recording medium (as shown in Table 10).

Claim 13: See rejections of claims 1-5 and 7-12.

- 5. Other references are cited as art of interest.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. T. Le whose telephone number is 703-308-2415. The examiner can normally be reached on 10:00 a.m. to 8:30 p.m., Mondays to Friday.

hl June 30, 2003 H. T. Le Primary Examiner Art Unit 1773

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